Serial No.: 09/545,769 Attorney Docket No.: 2000P07572US

IN THE CLAIMS:

This listing of the claims will replace all prior versions and listings of the claims in the application:

1-3 (Canceled)

4. (Currently Amended) A telecommunications system, comprising:
an Ethernet-type local area network; and
one or more telecommunications devices coupled to said Ethernet-type local area network, said one or more telecommunications devices including:
an Internet Protocol (IP) voice communication stack;
a ~~Quality of Service~~ quality of service Ethernet layer; and
a ~~Generate Quality of Service~~ generate quality of service Ethernet layer interposed between said Internet Protocol voice communication stack and said ~~Quality of Service~~ quality of service Ethernet layer and adapted to intercept a second byte in an IP header of an IP layer, identify from said second byte a quality of service required for individual calls, and generate corresponding ~~Quality of Service~~ quality of service commands to said ~~Quality of Service~~ quality of service Ethernet layer to define an Ethernet ~~Quality of Service~~ quality of service at an Ethernet layer;
said second byte comprising a ~~Type of Service~~ type of service byte;
wherein said ~~Quality of Service~~ quality of service Ethernet layer and said ~~Generate Quality of Service~~ generate quality of service Ethernet layer are modular.

5. (Currently Amended) A telecommunications system, comprising:
an Ethernet-type local area network; and
one or more telecommunications devices coupled to said Ethernet-type local area network, said one or more telecommunications devices including:
an Internet Protocol (IP) voice communication stack;
a ~~Quality of Service~~ quality of service Ethernet layer; and

-2-

Serial No.: 09/545,769   Attorney Docket No.: 2000P07572US

a ~~Generate Quality of Service~~ generate quality of service Ethernet layer interposed between said Internet Protocol voice communication stack and said ~~Quality of Service~~ quality of service Ethernet layer and adapted to intercept a second byte in an IP header of an IP layer, identify from said second byte a quality of service required for individual calls, and generate corresponding ~~Quality of Service~~ quality of service commands to said ~~Quality of Service~~ quality of service Ethernet layer to define an Ethernet ~~Quality of Service~~ quality of service at an Ethernet layer;

said second byte comprising a ~~Differentiated Service~~ differentiated service byte;

wherein said ~~Quality of Service~~ quality of service Ethernet layer and said ~~Generate Quality of Service~~ generate quality of service Ethernet layer are modular.

6 – 8 (Canceled)

9.   (Currently Amended) A telecommunications device adapted to be coupled to an Ethernet-type local area network, comprising:

an Internet Protocol (IP) voice communication stack;

a ~~Quality of Service~~ quality of service Ethernet layer; and

a ~~Generate Quality of Service~~ generate quality of service Ethernet layer interposed between said Internet Protocol voice communication stack and said ~~Quality of Service~~ quality of service Ethernet layer and adapted to intercept a second byte in an IP header of an IP layer, identify from said second byte a quality of service required for individual calls, and generate corresponding ~~Quality of Service~~ quality of service commands to said ~~Quality of Service~~ quality of service Ethernet layer to define an Ethernet ~~Quality of Service~~ quality of service at an Ethernet layer;

said second byte comprising a ~~Type of Service~~ type of service byte;

wherein said ~~Quality of Service~~ quality of service Ethernet layer and said ~~Generate Quality of Service~~ generate quality of service Ethernet layer are modular.

-3-

10. (Currently Amended) A telecommunications device adapted to be coupled to an Ethernet-type local area network, comprising:

an Internet Protocol (IP) voice communication stack;

a Quality of Service (QoS) Ethernet layer; and

a ~~Generate Quality of Service~~ generate quality of service Ethernet layer interposed between said Internet Protocol voice communication stack and said ~~Quality of Service~~ QoS Ethernet layer and adapted to intercept a second byte in an IP header of an IP layer, identify from said second byte a quality of service required for individual calls, and generate corresponding ~~Quality of Service~~ QoS commands to said ~~Quality of Service~~ QoS Ethernet layer to define an Ethernet ~~Quality of Service~~ quality of service at an Ethernet layer;

said second byte comprising a ~~Differentiated Service~~ differentiated service byte;

wherein said ~~Quality of Service~~ QoS Ethernet layer and said ~~Generate Quality of Service~~ generate quality of service Ethernet layer are modular.

11. (Currently Amended) A method comprising:

intercepting a second byte from an Internet Protocol (IP) header from an IP layer at a ~~Generate Quality of Service~~ generate quality of service layer interposed between said IP layer and a Quality of Service (QoS) Ethernet layer;

identifying from said second byte a quality of service required for individual calls; and

generating corresponding ~~Quality of Service~~ QoS commands to said ~~Quality of Service~~ QoS Ethernet layer to define an Ethernet ~~Quality of Service~~ quality of service at an Ethernet layer;

wherein said ~~Quality of Service~~ QoS Ethernet layer is modular and wherein said ~~Quality of Service~~ QoS commands are generated at a modular ~~Generate Quality of Service~~ generate quality of service Ethernet layer, wherein said second byte comprises a ~~Type of Service~~ type of service byte or a ~~Differentiated Service~~ differentiated service byte.

-4-

12.   (Currently Amended) A method, comprising:

beginning an IP multimedia call;

encapsulating corresponding messages for said IP multimedia call in IP protocol data packets;

setting a second byte of an IP header at an IP layer for said IP protocol data packets;

reading said second byte at a ~~Generate Quality of Service~~ generate quality of service layer interposed between said IP layer and a Quality of Service (QoS) Ethernet layer before said IP protocol data packets are sent over a network;

accessing a lookup table, said lookup table containing entries for mapping said second byte to QoS Ethernet quality of service commands;

sending said QoS Ethernet quality of service commands to a QoS Ethernet layer; and

sending said IP protocol data packets over an Ethernet network using a quality of service as specified in said QoS Ethernet quality of service commands at an Ethernet layer;

wherein said QoS Ethernet layer is modular and wherein said ~~Quality of Service~~ QoS commands are mapped using a modular ~~Generate Quality of Service~~ generate quality of service Ethernet layer.

13.   (Previously Presented) The method according to claim 12, wherein said second byte comprises a type of service byte.

14.   (Previously Presented) The method according to claim 12, said second byte comprising a differentiated service byte.

15.   (Currently Amended) A system, comprising:

means for beginning an IP multimedia call;

means for encapsulating corresponding messages for said IP multimedia call in IP protocol data packets;

-5-

means for setting a second byte of an IP header at an IP layer for said IP protocol data packets;

means for reading said second byte at a ~~Generate Quality of Service~~ generate quality of service layer interposed between said IP layer and a Quality of Service (QoS) Ethernet layer before said IP protocol data packets are sent over a network;

means for accessing a lookup table, said lookup table containing entries for mapping said second byte to QoS Ethernet quality of service commands;

means for sending said QoS Ethernet quality of service commands to a QoS Ethernet layer; and

means for sending said IP protocol data packets over an Ethernet network using a quality of service as specified in said QoS Ethernet quality of service commands at an Ethernet layer;

wherein said QoS Ethernet layer is modular and wherein said ~~Quality of Service~~ QoS commands are mapped using a modular ~~Generate Quality of Service~~ generate quality of service Ethernet layer.

16.   (Previously Presented) The system according to claim 15, wherein said second byte comprises a type of service byte.

17.   (Previously Presented) The system according to claim 15, said second byte comprising a differentiated service byte.

-6-